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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-220-50-1 Relating to Certification of New Motor Vehicles

JAGUAR CARS, LTD.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1998 model-year Jaguar Cars, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: WJCXV04.0AS3 <u>Displacement</u>: 4.0 Liters (243 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Sequential Multiport Fuel Injection
Dual Heated Oxygen Sensors
Dual Three Way Catalytic Converters
Supercharger
Charge Air Cooler
Dual Oxygen Sensors
Exhaust Gas Recirculation

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane	Carbon	Nitrogen	Carbon	
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20°F)</u>	
50,000	0.25	3.4	0.4	10.0	
100,000	0.31	4.2	0.6	n/a	

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon	
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20°F)</u>	
50,000	0.14	1.0	0.2	5.6	
100,000	0.18	1.1	0.2	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer shall not be subject to the fleet average non-methane organic gases exhaust mass emission requirements as set forth in the "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" pursuant to Section 3.h., note (6) d. of these standards and test procedures (small volume manufacturer whose projected California sales exceeds 3000 vehicles per model year.)

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executive Order A-220-50 dated October 22, 1997, is superseded and replaced by Executive Order A-220-50-1.

Executed at El Monte, California this 10 day of March 1998.

R. B. Summerfield, Chief Mobile Source Operations Division

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17.00.00.00	cont'd			E.O. # <u>A-2</u>	20-50 - I	Page <u>1</u> of <u>1</u>
08.01.02	1998 AIR RESO	JRCES BOAF	RD SUPPLEME			_
	PASSENGER CA	RS, LIGHT-D	UTY TRUCKS	& MEDIUM-D	UTY VEHI	CLES
Manufacturer: <u>J</u>	aguar Cars Ltd	Exh Eng Fa	m: WJCXV04. 0	OAS3 Evap	Fam: WJC	XE0121M2X
	in Eng. Fam: CA					
	Tier-1 X TLEV					
	PC X LDT1_					
	for Muti-Class En				_	_
Fuel Type(s):	Dedicated X FI	ex-Fuel _ D LPG _ Mi	ual-Fuel Bi 35 Other _	i-Fuel _ Gas -	oline <u>X</u> I	Diesel _
Emission Test F	uel(s): Indo <u>X</u> Diesel:	CBG _ CN 13 CRR 2282	G _ LPG _ _ 40CFR86.	M85 _ Oth	er _ CFR86.113	3-94 _
Evaporative Emi	ission Test Proced	dure: Califor	nia_ Federal	<u>X</u>		
Service Accum:	Std AMA X M	lod AMA _ I	Mfr ADP _ O	ther _		
NMOG Test Pro	cedure: N/A X	Std _ Equ	iv _; R/L Te:	st Proc: SHE	D_Pts	Source X
	ation: <u>V8</u> Disp					
Valves per Cylin	der: 4 Rated H	IP: <u>370 @ 6</u>	<u>150</u>			
Engine: Front	X Mid Rear	_ Drive: i	FWD _ RWD	<u>X</u> 4WD-FT	_ 4WD-	PT _
	EGR:2HO2S:2TV					-
	Vehicle Models	Trans E A- Auto	TW DPA		EGR System	Catalytic Converter

Engine Code	Vehicle Models	Trans A- Auto M- Man	ETW	DPA	ECM Part No	EGR System Part No	Catalytic Converter Part No.
4.0SFC-98 (50ST)	XJR	A5	4500	8.8	LNC1410AD	LCA1550A	AE NNC6700JB NNC6701JB

New TCM, part # LNC2403AA replaced by LNC2403AB, introduced by R/C 4.0V8-98/3. See Page 21-3 of this application for certification.